www.mobileboosterking.co.uk

Mobile Repeater User Manual

Section 1–Introduction

Section 2–External Aerial Location

Section 3–Mobile Repeater Installation

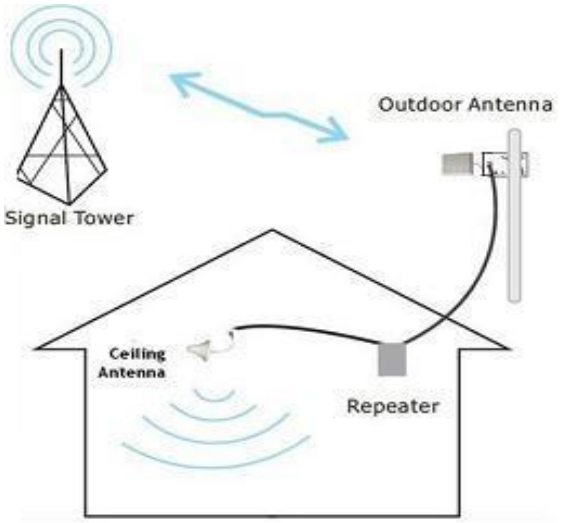
Section 3.1-Example Photos Of How A Booster Unit Is Connected

Section 4–System Commissioning

Section 5–Trouble-Shooting Tips

Section 6a-FAQ - Yagi and Panel Antenna Trouble Shooting

Section 6b–Return Policy and Disclaimer



Section 1–Introduction

Thank you for purchasing a mobile phone signal booster from www.mobileboosterking.co.uk. Your product is designed to enhance mobile phone coverage for indoor applications by capturing a signal externally, amplifying and re-transmitting a clear and reliable signal within the desired coverage area. The performance o your mobile repeater kit will depend on the external signal strength, which is provided as a basic installation and offers some trouble-shooting tips if you are have any difficulty getting your kit to work.

Mobile Repeater Kit Contents

1-Repeater Unit 2-External Aerial 3-Low-Loss Coax 4-Mains Power Supply

1-Repeater Unit-Your repeater unit will be located inside in the area with low signal. The repeater unit requires connection to a mains power supply

2-External Aerial-Your external aerial is a square flat panel which is directional and should be faced towards the nearest mast for your network operator. The aerial comes with a mounting bracket for simple installation.

3-Low Loss Coax-The black 50-5D coax cable provided connects external aerial to the repeater base unit. It is important that the cable is fully uncoiled and free from sharp bends or kinks to avoid signal problems.

4-Mains Power Supply-Mains power supply with your country the RIGHT Plug which provides 12V DC Power to the repeater unit.

Section 2–External Aerial Location

The most important part of the installation is the location and orientation of the external aerial. The external aerial is a square flat panel that has a small coax lead connected to it. The external aerial should be separated from the base repeater as much as possible to avoid potential feedback between the two units. When installing the external aerial please consider the following:

Physical Location

The external aerial should ideally be mounted as high as possible outside in order to provide the best signal input to the base repeater unit. Please find the location outside where you have the strongest signal on your phone. Please check to make sure you are able to place a call on your phone at this location.

Direction/Orientation

The panel aerial is directional and should be installed so that it points towards to local base station for your network provider. The external aerial applies the highest amount of signal gain when pointed in the direction-The stronger the input signal to the repeater the better the indoor coverage will be.

*Note- United Kingdom users can use www.sitefinder.ofcom.org.uk to locate base stations in your postcode or call your network provider to check.

Please seal the connection of the cable connector of the aerial on the end of the

coax so that it is waterproof.

Section 3–Mobile Repeater Installation

Location of the mobile repeater base unit

The standard mobile repeater kit comes with an omni-directional whip aerial that attaches to the 'Indoor' connector of the repeater unit. Since the whip aerial is omni-directional, the signal broadcast is in a circular radius around the base unit. Considering this it is best to locate the base repeater unit in a central areal or in a particular area where signal is critical. The range of the indoor broadcast will depend on the strength of the signal coming from the external aerial.

Please not that the location for the repeater unit will require mains power and the base unit should be mounted on a flat surface.

The whip aerial when attached to the repeater should be oriented vertically.

Cable Run from External aerial to Mobile repeater Unit

After determining the best cable route from the external antenna to the repeater connect the cable at both ends. Provide a firm connection for the coax cable with the outdoor aerial through the connector fixed at the cable end and connect the other side of the cable to the port on the booster base unit labeled 'Outdoor'. When routing cable ensure that the cable is supported and does not sag.

*Note-It is extremely important that there are no coils or loops of excess cable between the outdoor aerial and the repeater. This is addition to sharp bends and kinks can cause signal oscillation on the system and a false reading of the green LED's on the base unit. Please make sure you have no spare cable coiled or kinked. If you have excess cable you should eighter use it to raise the height of the external aerial, move the base repeater further away from the external aerial or take an indirect path as to not coil the cable at eighter end.

*Note-Please do not remove connectors from the cable, repeater or aerial unless you have the necessary tools to do so. We will not warranty any

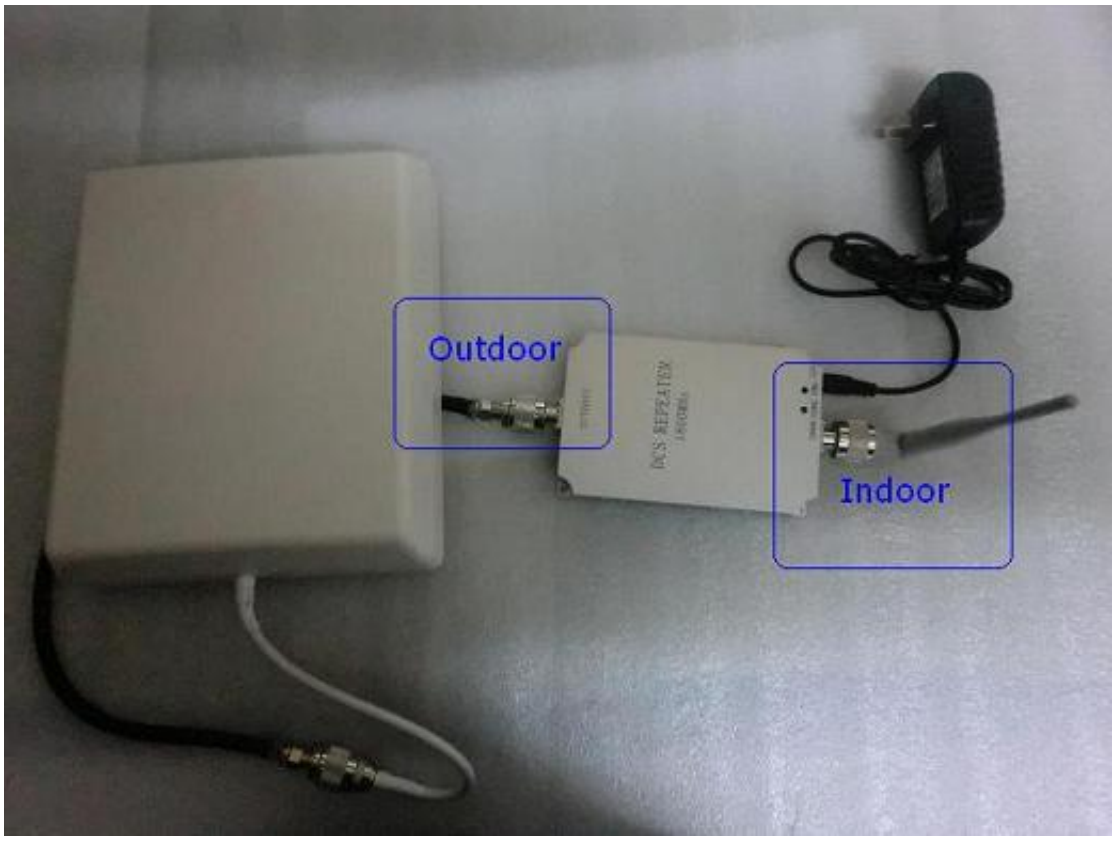
equipment that has been tampered with. If you have any concern please contact us.

Section 3.1-Examples Photos Of How A Booster Is Connected

Below are examples of how to connect coax cables to the booster unit:

"MOBILE" Connect to the Indoor Antenna

2. "MOBILE" Connect to Indoor Antenna
1. "BTS" Connect to Outdoor Antenna



Section 4–System Commissioning

Before turning the repeater unit on please ensure that you have the connectors for the outdoor aerial and the indoor whip aerial fastened firmly.

Connect the mains power to the DC adapter and connect the DC adapter cord to the power input of the repeater unit. When active the red LED will glow ON. If you have a strong outdoor signal level you will see the green LED come on as well as which point you should see a signal come through on your mobile phone.

Once the base unit is on you can re-boot your mobile phone and check to see if it is receiving a signal. Try placing a test-call to someone or to your voice mail to see if you can call out.

If you are able to place calls out(and receive calls) your repeater is working properly. You can adjust the direction of the external aerial to try and maximize the indoor signal coverage. We also supplies signal splitters and indoor coverage aerial that can be used to distribute signal over a building with multiple areas or heavy partition walls.

If you are not able to place calls but you have a strong signal at the location of your external aerial please review the trouble-shooting tips below for more

information or please contact us for technical advice.

Section 5–Trouble-Shooting Tips

If you get a signal off the repeater but coverage radius is low

If you have established that you are now able to place and receive calls when in range of the repeater and want to extend coverage inside the building it is important to ensure the proper orientation of your external aerial and to ensure that it is pointed towards the local base station for your network provider. Beyond this you may consider upgrading to a higher gain aerial improve range.

If the Green LED is OFF but you are still getting a signal on your mobile phone

This is OK. The repeater is operating normally. NOTE the green signal indicator does not need to be on in order for the unit to operate properly. The green LED is designed to activate when the repeater unit receives maximum signal input form the external aerial (Signal Should Arrive at -50dB). If the LED is OFF the repeater will still broadcast a signal but may not reach the maximum estimated coverage area.

If the Green LED is ON but you are not getting a signal on your phone

Some situations can cause false readings of the the green signal LED's on the base unit, which can be a result of interference or coiled cable.

First check to make sure you have the maximum separation possible between the external antenna and the repeater. It is very important that there is no spare cable coiled in loops at any point. If you have the cable coiled please unroll the whole cable and re-check the signal on your phone next The external aerial should not be within 5 meters of an active TV or satellite aerial

If the green lights are still ON but you cannot place calls inside or drop calls on a regular basis

Your repeater may be oscillation due to interference between the external aerial and the base repeater, due to cable problems or a short circuit. If you are experiencing this and you have already ensured that the cable run is straight and free from coils, sharp bends or kinks please contact us.

If your phone shows a strong signal but the call quality is not clear

This is either a result of coiled cable, a sharp bend or due to external aerial direction. If your cable run is straight and you have not coiled excess cable please check the direction of the external aerial and ensure that if points towards the local base station. As the aerial is directional it needs proper orientation to ensure a reliable communication channel between the external aerial and the nearest base station for your networks.

*Note-United Kingdom can use www.sitefinder.ofcom.org.uk to locate base stations in your postcode or call your networks provider to check

If you are not able to locate the base station from the website about simply rotate the aerial in a full circle and test calls inside near the repeater unit to ensure a quality signal. Otherwise we would recommend contacting your network provider to request information on the nearest base station location.

If the Green LED is OFF and you can not receive a signal near the repeater unit

This is a result of the repeater unit not receiving a strong enough signal externally. First ensure that the *entire* length of cable is completely uncoiled and free from any sharp bends or kinks. Next check the coax cable between the

outdoor aerial and the repeater and make sure connections and cable are intact. Next check the orientation of the external aerial and ensure it is pointed in the right direction. If necessary simply rotate the external aerial and monitor the signal level on your phone inside near the repeater to see if you are able to pick up the external signal. If you still do not receive a signal on your phone from the repeater (even if the green LED is OFF) then you may need to consider using a higher gain and more directional external aerial that is more sensitive to capturing weak outdoor signals.

Section 6a-FAQ - Yagi and Panel Antenna Trouble Shooting

FAQ - Yagi and Panel Antenna Trouble Shooting

Question: I do not see any noticeable increase in the bars on my cell phone when I connect it to the Yagi/panel antenna.

Answer: There are several reason why there is no change in signal strength:

1. You do not have all of the cables hookup and attached properly. Check all connectors. Make sure the external antenna adapter is connected to the right port on your cell phone

2. The Yagi antenna is not pointed at the Mobile Tower. Many people think that they are pointing at the tower because they can see it from their home or building. However, you may be looking at another companies tower instead of the one your cell phone is hooked up to! Make sure you rotate the Yagi antenna on the pole slowly pausing every 5 degrees at least 20 or more seconds. This allows the field strength meter (the Bars on your mobile phone) to catch up with the signal strength.

3. My mobile phone does not increase any bars: The Bars on your mobile phone aren't sensitive enough: Most mobile phone signal meters are not calibrated properly. Each bar m seen on the meter represent as much as a 15 dB change in signal strength. A 7 dB gain may not even be enough to increase 1 bar! It is important to note that a 3dB increase in signal strength translates into double the signal strength and a 6 dB to 4 times. You can essentially

be getting 4 times the signal with no bar increase. The best test is if you can make a call and if you have fewer dropped calls as well.

4. When I hookup my mobile phone the signal strength shows a drop in bars: This is most likely caused by a shorted adapter, cable or if you chose the wrong frequency antenna. It can also be caused by the cell phone external adapter port malfunctioning. Disconnect all cables from the external antenna adapter and unplug the external antenna adapter from the mobile phone. Does the signal level increase? If so, plug in the adapter. It should decrease if the port disconnects the internal antenna.

I connected the Yagi/panel Antenna and now I experience fluctuating Signal levels, it goes to no bars then bounces to 3 or more bars. When I do make a call, It drops: This is most prevalent with CDMA type of services such as orange,t-mobile,vodafone,02 etc. This can be caused by

1. the tower being too far away (greater than 25 miles) The distance problem is as a result of the timing delay of the signal coming form the tower to your cell phone.

2. a software problem within the cell phone itself. There are upgrades available for most mobile phones. These upgrades can installed most of the time by your mobile provider or dealer.

3. Tree Fade: You have trees in the way. You need to place the Yagi/panel antenna at a different location or on a higher pole to clear the tree line or other obstructions.

I followed all of the instructions. I rotated the antenna very slowly pausing at 5 degree increments for at least 20 seconds. There is not a tree around me, no buildings to contend with, I have flat land. All of my connectors are on properly. My cell phone works well without the adapter plugged in. I upgraded my software on the cell phone. I am less than 5 miles from the center of a town. What now? Email us **CONTACT US**

Section 6b–Return Policy and Disclaimer

We are proud to provide high quality products that are guaranteed to increase signal quality and extend mobile coverage. If you are not satisfied with the performance quality of your repeater, we will give you your money back! All returns must be received within 30 days of the delivery date.

Garethwatt76@hotmail.com

In order to return your product you must first tell our technical support to see if we can resolve your issue. If we are not able to solve your coverage problem you may request an RMA code, which includes a special returns address along with that authorization. Any returns received without an RMA authorization, outside of 30 days from the original delivery date, or to the WRONG address will not be refunded. Damaged equipment returned even with an RMA will be subject to a 20% restocking fee. Orders for pre-cut lengths of cable are non-refundable.

Customers are responsible for shipping charges of the return delivery. All returns are subject to up-to 20% re-stocking fee. Your order will be refunded upon receiving the product in its original packaging. Please note that postage costs for the original order are not refundable.